

Three new flexiTIM™ signal processors are available

by Jim Adams

Project Applications Engineer
Bently Nevada Corporation
e-mail: jim.adams@bently.com

For many years, our customers have used Trendmaster® 2000 Systems to effectively manage their noncritical rotating machinery. Our new flexiTIM™ (flexible Transducer Interface Module) significantly reduces the installation costs associated with an online system, enabling you to justify monitoring additional pieces of machinery that were previously considered too expensive to instrument.

Three types of flexiTIMs are available:

- Dual Acceleration-to-Velocity
- Dual Temperature (thermocouple)
- Dual Pressure

Acceleration-to-Velocity

The Acceleration-to-Velocity flexiTIM accepts inputs from two Bently Nevada 200150 general-purpose accelerometers (Figure 1). This transducer is a piezoelectric accelerometer housed in a transfer molded case, with a sealed top-exit connector. The quick-disconnect connectors on the flexiTIM and transducer reduce installation and maintenance costs.



Figure 1. 200150 Accelerometer and cable.

Temperature

The Temperature flexiTIM (Figure 2) accepts inputs from two "J" or "K" type thermocouples. This enables Trendmaster 2000 users to monitor the temperature levels of important machinery components, such as rolling element bearings (bearing cap), machine casings, and seal flush fluid.



Figure 2. Temperature flexiTIM.

Note: For those who prefer RTDs rather than thermocouples, a dual RTD input flexiTIM is due to release in the third quarter of 1999.

Pressure

The Dual Pressure flexiTIM (Figure 3) accepts two pressure transducer inputs for the Trendmaster 2000 System. Its high reliability and economical price make it an ideal choice for a diverse range of industries and applications.

Compatible pressure transducers are available from Bently Nevada.



Figure 3. Pressure flexiTIM.

Note: We will also introduce a 3300 REBAM® flexiTIM transducer system in 1999. REBAM eddy current transducer systems observe the minute outer ring deflections of rolling element bearings to better determine the bearing's condition (see sidebar on page 9 for more information about REBAM).

For more information on these three flexiTIMs, contact your nearest Bently Nevada sales professional. For a current copy of the data sheet, visit our website – www.bently.com – or check the appropriate box on the enclosed Reader Service Card. ☺